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Scraping and Sanding

Potential Environmental Impacts:

Hull paints often contain heavy metals and other toxins. Sanding chips and dust that fall onto the ground can enter a marina basin through stormwater runoff. Paint chips and sanding debris can be particularly dangerous when shellfish ingest them and other animals, including humans, then ingest the shellfish.

Legal Requirements:

Make	You must determine if your sanding dust is hazardous and manage
hazardous	accordingly [RCRA; 40 CFR 262.11; DHEC R.61-79.262.11].
waste	If the sanding dust is not hazardous, it must be handled as a Special Waste.
determination	This waste may be disposed of at a solid waste landfill if the site meets the
	design criteria for municipal solid waste landfills. [DHEC R. 61-107.258].

Designate indoor or upland area	Conduct sanding and scraping away from the water's edge. Designate an indoor or upland area for debris-producing maintenance such as scraping, sanding, and sandblasting. The boat maintenance area can be a temporary structure or plastic sheeting provided to minimize the spreading of dust and windblown material. The work area should be well marked with signs.
Use tarps	 Place drop cloths or tarps under vessels when sanding or scraping. Weight the bottom edges of tarps and drop clothes to keep them in place.
Impervious pad	☐ Consider installing an impervious pad for conducting debris-producing maintenance.
Clean up immediately	 Clean up all debris, trash, sanding dust, and paint chips immediately following any maintenance or repair activity. When sanding or grinding hulls over a paved surface, vacuuming or sweeping loose paint particles is the preferred cleanup method. Do not hose the debris away. Dispose of water-based (non-hazardous) waste paint chips and sanding waste in a covered dumpster or other covered solid waste receptacle.
Non-windy days	Avoid scraping or sanding on windy days, unless conducting activity in an enclosed maintenance structure.
Use vacuum sanders	 Use dustless or vacuum sanders when sanding. These tools can collect over 98% of dust generated instead of releasing it into the air. Workers can use this equipment without full suits or respirators and have fewer cleanups when the job is done. Require customers and contractors to use dustless or vacuum sanders. Rent or loan the equipment to them. Post signs indicating the availability of the dustless or vacuum sanders.
Provide covered container	Provide a covered collection drum for the dust from vacuum sanders and other scraping debris.

In water	Restrict or prohibit sanding and scraping boats that are in the water, to the
activities	greatest extent practicable.
	☐ If sanding, scraping, or grinding must take place while the boat is in the
	water, use tarps and sheeting installed between the vessel being worked on
	and the floats or walking surface to prevent dust, paint chips, debris, or
	other materials from falling or being blown into the water. The sheeting
	should have a tight seal to the vessel and adjacent surfaces to prevent
	leakage of any paint chips or dust outside the work area. Remove the
	sheeting carefully to prevent the loss of accumulated waste material into
	the water.
Minimize	☐ Where feasible, boat maintenance and storage practices that minimize the
scraping need	need for scraping and sanding should be encouraged.

- ⇒ Appendix B and Hazardous Waste section for hazardous waste management information.
- ⇒ Appendix F and Stormwater Runoff Management Practices section for stormwater discharge information.
- ⇒ Abrasive Blasting section.

Paint Stripping

Potential Environmental Impacts:

Many paint strippers are solvent-based, and contain chemicals that are dangerous to humans. Some are flammable and most can cause water and air pollution if not handled properly. Toxic chemicals in paint strippers may include methylene chloride (also called dichloromethane, or DCM), methyl ethyl ketone (or 2-Butanone), acetone, toluene, methanol, N-methylpyrrolidone (NMP), or xylene. There are some less environmentally damaging and less hazardous paint strippers available on the market.

Legal Requirements:

Make	☐ A hazardous waste determination must be conducted to establish whether
hazardous	or not disposal of used paint strippers is subject to hazardous waste
waste	regulations [RCRA; 40 CFR 262.11; DHEC R.61-79.262.11]. A hazardous waste
determination	determination must also be conducted on any materials used to clean up a
	spill. Manage waste accordingly.

Best Management Practices:

Use	Consider alternatives to chemical paint stripping depending on the
alternatives	characteristics of the surface being stripped, the type of paint being
	removed, and the volume and type of waste produced. Alternatives include
	scraping, sanding, and/or abrasive blasting. Use a heat gun to remove paint
	and varnish where appropriate.
	If paint strippers must be used, use soy-based or water-based products that
	are less hazardous.
Reduce	Use only the minimum amount of paint stripper needed for a job.
leftovers	
Reduce	Prevent evaporation by using tight fitting lids or stoppers. Reducing
evaporation	evaporation protects air quality, saves product and money.
Reduce spills	Reduce the chance of spills during transport by storing unused paint
	stripper where it's used most in the shop. Place the product on an
	impervious base.
Educate and	Encourage careful use by informing all workers and operators of the
train	hazardous nature of solvents and the purchasing and recycling costs.
employees	Train employees to use less paint stripper, to properly store new and used
	paint strippers, to use wise clean-up procedures, and to prevent leaks and
	spills.

- ⇒ Appendix B and Hazardous Waste section for hazardous waste management information.
- ⇒ Appendix F and Stormwater Runoff Management Practices section for stormwater discharge information.
- ⇒ Abrasive Blasting section and Scraping and Sanding section.

Prepping and Painting Boat Bottoms

Antifouling Paint

Potential Environmental Impacts:

Most antifouling paint contains elemental copper, cuprous oxide (a copper compound), or tin-based compounds (tributyl tin) that kill organisms attempting to attach to a painted surface. By design, antifouling paints are toxic to marine life and can be absorbed by edible fish and shellfish. Concentrations of tributyltin (TBT) as low as a few parts per trillion have caused abnormal development and decreased reproductive success in oysters, clams, and snails (EPA, 1993). The toxins in antifouling paints enter the environment through spillage, sanding, sand blasting, or scraping. Antifouling paint chips left on the ground or driveway can be transported into the water by stormwater runoff. The toxicants in antifouling paint can be passed up the food chain from mussels and worms to fish, birds, and humans.

Legal Requirements:

No TBT on	The use of anti-fouling tributyltin (TBT) containing paints is prohibited on
vessels < 25m	vessels less than 25 meters (82 feet) in length. Vessels with aluminum
	hulls, which quickly corrode from cuprous oxide anti-foulant coatings, are
	also allowed to use TBT [Organotin Antifouling Paint Control Act 33 U.S.C. 2401].
Make	A hazardous waste determination must be conducted to establish whether
hazardous	or not disposal of traditionally used antifouling paints, in solid or liquid
waste	form, is subject to hazardous waste regulations [RCRA; 40 CFR 262.11; DHEC
determination	r.61-79.262.11]. A hazardous waste determination must also be conducted on
	any materials used to clean a spill.
Abrasive blast	Abrasive Blast Media Containing Pesticides (such as TBT paint chippings)
media	must be handled as special waste. This waste may be disposed of at a solid
	waste landfill if the site meets the design criteria for municipal solid waste
	landfills [DHEC R. 61-107.258].

Use alternative	Switch to long-lasting, low-toxicity antifouling paint.
products	Recommend antifouling paints containing the minimum amount of toxin
	necessary for the expected condition to your customers. Stock only those in the ship store.
	Stay informed about antifouling products, like Teflon, silicone, polyure-
	thane, and wax that have limited negative impacts. Pass on the information
	to your customers.
Don't use in	Discourage use of antifouling paint on boats kept in fresh water.
fresh water	
Non-moored	Recommend that boats that are rack stored or trailered use alternatives to
boats	antifouling paint such as polyurethane, bottom wax, or non-metallic
	epoxies, since antifouling paint is not necessary for boats that are not
	continuously in the water.

Sanding	Use dust-collecting sanders when sanding anti-fouling paint.
	Sandblasting is not recommended for removal of antifouling paint.
	Sweep and collect paint chips (don't hose) immediately after scraping or
	sanding.
Mix away	Mix paints and solvents away from the water and prevent dripping into the
from water	water. Avoid mixing paint or cleaning brushes on open floats or other
	structures over the water.
Use drip pans,	Use drip pans, tarps, and sheeting to contain droppings and spilled
tarps, and	materials. Drip pans should be used for all paint mixing, solvent transfer,
sheeting	or equipment clean up operations unless the operations are conducted in
	controlled areas away from storm drains, surface waters, shorelines, piers,
	docks, or floats.
Weight tarp	Weight the bottom edges of tarps and plastic sheeting to keep them in
bottoms	place.
Reduce	Mix only enough paint necessary for a job.
leftovers	Save excess or unused antifouling paint for future uses.
Reuse solvents	Reuse solvents and thinners by draining the clean product off the top once
	solids settle out.
Prohibit in-	Prohibit in-water bottom cleaning, hull scraping, or any process that occurs
water bottom	underwater that could remove antifouling paint from the boat hull. It is
cleaning	impossible to treat what's cleaned from the boat bottom.
	If in-water bottom cleaning is allowed, require that customers or
	contractors use only soft sponges to clean marine growth and use stainless
	steel pads or brushes only on unpainted metal areas (never on bottom
	paint). Colored plumes of paint in the water near underwater cleaning
	activity should not occur.

- ⇒ Appendix B and Hazardous Waste section for hazardous waste management information.
- ⇒ Appendix F and Stormwater Runoff Management Practices section for stormwater discharge information.
- ⇒ Abrasive Blasting section for sandblasting information.
- ⇒ Scraping and Sanding section.

Hull and Topside Painting

Potential Environmental Impacts:

Hull and topside paints may be toxic and inhalation may cause cancer. If spilled, they may harm aquatic life and water quality. Additionally, the fumes released by some paints can contribute to air pollution.

Legal Requirements:

Make hazardous	A hazardous waste determination must be conducted on painting wastes and any materials used to clean up spilled paint to establish whether or not
waste	their disposal is subject to hazardous waste regulations [RCRA; 40 CFR
determination	262.11; DHEC R. 61-79.262.11].
Paint can	Paint cans and other containers that have residues of hazardous (e.g., oil-
residue	based) paints must be handled as hazardous waste unless they have been
	"emptied," which means:
	 Drained of all material that can be removed from them by normal
	methods (e.g., pouring or pumping), AND
	■ No more than one inch (or 3% by weight) of residue remains in the
	container [40 CFR 261.7; DHEC R.61-79.262.34].
	"Emptied" containers of hazardous paints and those that have dried out
	residues of non-hazardous (e.g., latex) paints may be recycled as scrap
	metal, or disposed of in the regular trash.
Report spills	If paint or varnish that is discharged into the navigable waters of the state
	causes a visible sheen, report the spill to the National Response Center at
	(800) 424-8802 [§311 of the Clean Water Act; 33 USC 1321].

Storage	☐ Store all paint in a centralized, covered area. Return all unused paints to
	that area and immediately and properly manage empty containers.
Leftover paint	☐ Avoid the problem of having leftover paint by mixing only as much paint
	as is needed for a given job.
	☐ Consider sharing leftover paints with customers or setting up an exchange
	area for customers to swap unused items. Contact the local SCDHEC
	regional office to ensure a leftover paint swap area does not change your
	hazardous waste generator status.
In-water	☐ Limit in-water painting to interior surfaces and bright work, where paint
painting	materials and spills can be contained and prevented from entering the
	water. Do not allow in-water hull scraping or any process that occurs
	underwater to remove paint from the boat hull.
Small	☐ Although it is not advised to conduct painting while the boat is in the
containers	water, if it must be done, transfer the paint to the vessel in a small (less
	than one gallon), tightly covered container. Small containers mean small
	spills.

Designate area		Designate an upland area for debris-producing maintenance activities such
Designate area	-	
		as sanding and painting.
		Do as much work as possible away from the water, including mixing
		paints and/or cleaning brushes.
Use tarps		Use tarps or drop cloths to collect drips. Weight the bottom edges of tarps
_		and plastic sheeting to keep them in place.
Use drip pans		Use drip pans for all paint mixing, paint transfer, and/or equipment clean
		up.
		Material captured in drip pans should be used or returned to their original
		container if possible.
Use alternative		Use low-VOC, high solids content, and water-based paints and surface
products		preparation products instead of traditional paints and primers.
1		Encourage the use of non-toxic, high bonding, and easily cleaned hull
		coatings.
Use brushes		Use brushes and rollers instead of paint sprayers whenever possible, since
and rollers		paint spraying is potentially more wasteful and more harmful to the
		environment.
Reuse solvents		Reuse solvents and thinners by draining the clean product off the top once
		solids settle out.
Spills		Contain and clean up spilled paint or varnish immediately.

- ⇒ Appendix B and Hazardous Waste section for hazardous waste management information.
- ⇒ Appendix E and Spills section for spill reporting requirements and actions.
- ⇒ Appendix F and Stormwater Runoff Management Practices section for stormwater discharge information.
- ⇒ Paint Spraying section.

Abrasive Blasting

Potential Environmental Impacts:

In abrasive blasting, sand, glass or plastic bead, walnut shells, metal shot or grit, sodium bicarbonate, or dry ice pellets are used with air pressure or water pressure to remove paint. Traditional abrasive blasting of large boat hulls is a messy job resulting in many hundreds of pounds of spent abrasive mixed with bottom paint. While the abrasive can be relatively cheap, the labor is costly and the potential environmental impacts are large.

Legal Requirements:

Make	You must determine if your blasting wastes are hazardous [RCRA; 40 CFR
hazardous	262.11; DHEC R.61-79.262.11] and manage accordingly.
waste	
determination	
Abrasive blast	Abrasive Blast Media Containing Pesticides (such as TBT paint chippings)
media	must be handled as special waste. This waste may be disposed of at a solid
	waste landfill if the site meets the design criteria of municipal solid wastes
	landfills. [DHEC R.61-107.258].
Fugitive	Fugitive particulate emissions shall be controlled in a manner, or to a
emissions	degree, that it does not create an undesirable level of pollution [DHEC R. 61-
	62.6].

Best Management Practices:

Use alternatives		Consider alternatives to abrasive blasting on-site, such as dustless sanders or contracting the work off-site.
		Č
Containment		If abrasive blasting must be done, perform it within well-ventilated spray
and location		booths or plastic tarp enclosures away from the water to minimize the
		spreading of dust and windblown material, and to prevent residue from
		being carried into surface waters.
		Prohibit uncontained blasting in the marina.
Blast on non-		If tarp enclosures are used, avoid blasting on windy days. Because tarps
windy days		are not rigid, they do not eliminate wind flow through the blasting area,
		and so they allow the wind to carry blasting material and residue into
		surface waters.
Waste storage		Store spent sandblasting grit, scrapings, and debris under cover in a
		manner that minimizes contact with process water or stormwater.
Recycle blast		Recycle used blast media. Investigate companies that recycle used blast
media		media into new media or other products.

- ⇒ Appendix B and Hazardous Waste section for hazardous waste management information.
- ⇒ Appendix F and Stormwater Runoff Management Practices section for stormwater discharge information.

Paint Spraying

Potential Environmental Impacts:

Paint spraying has potential air and water quality impacts. Most paints contain volatile organic compounds (VOCs) that evaporate quickly and are ignitable. Many paints are also toxic. When released to the atmosphere, VOCs combine with combustion emissions of nitrogen oxides (NO_x) to form ground level ozone, which damages lungs and degrades many materials. Marine paint may be toxic to aquatic and marine life.

Legal Requirements:

Make	☐ You must determine if your painting wastes (including leftover paints,
hazardous	spray gun solvents, and rags), or any materials used to clean a spill, are
waste	hazardous [RCRA; 40 CFR 262.11; DHEC R.61-79.262.11] and manage
determination	accordingly.

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Pressure (HVLP) or Hi d at 65% efficient paint % to 50%. Electrostatic le overspray, and uses and easily cleaned hull poid working on windy

Reduce	Limit the amount of leftover paint and decrease solvent use by using a
leftovers	smaller paint spray gun cup.
Reuse solvents	Reuse solvents and thinners by draining the clean product off the top once
	solids settle out.
Paint gun	Clean paint guns in an enclosed gun cleaner and capture all solvents.
cleaning	
Solvent	Spent paint gun solvent must be treated as hazardous waste and should
disposal	never be discharged into drains or onto the ground.
	Solvents should be recycled either in an onsite distillation unit or by a
	permitted recycling facility.
	Evaporation of waste solvent or waste solvent-based paint constitutes
	illegal disposal of hazardous waste.

- ⇒ Appendix B and Hazardous Waste section for hazardous waste management information.
- ⇒ Appendix F and Stormwater Runoff Management Practices section for stormwater discharge information.
- ⇒ Rags and Oil Absorbent Pads section.

Compound Waxing

Potential Environmental Impacts:

Whether a hull is slightly oxidized or heavily oxidized and stained or whether a one or two-step5 process is required to improve the luster of the hull, there are few environmental impacts from compounding and waxing a hull. Basic pollution prevention techniques and proper management of the substances used to restore fiberglass hulls will help keep waxes and cleaners out of the environment.

Legal Requirements:

Make	☐ Most stain removers, rubbing compounds and waxes are not hazardous
hazardous	materials, although some have hazardous constituents. If any of the
waste	products you use contain hazardous ingredients, you must determine if the
determination	waste materials that are generated are hazardous [RCRA; 40 CFR 262.11;
	DHEC R.61-79.262.11] and manage accordingly.

Best Management Practices:

Use non-	☐ Check all product Material Safety Data Sheets and purchase those that are
hazardous	non-hazardous.
	☐ If possible, use phosphate free, biodegradable and non-toxic soap when
	prepping a hull. When removing tough stains, use only as much stain
	remover as necessary, or use a more abrasive rubbing or polishing
	compound.
Location	☐ Conduct compounding and waxing away from the water.

- ⇒ Appendix B and Hazardous Waste section for hazardous waste management information.
- ⇒ Appendix F and Stormwater Runoff Management Practices section for stormwater discharge information.
- ⇒ Rags and Oil Absorbent Pads section.

Varnishing

Potential Environmental Impacts:

Spills of oil-based varnishes may be detrimental to the marine and aquatic environment. Since they are petroleum-based, spills may have similar impact as oil spills. Chemicals in varnishes can be highly flammable and potentially harmful to human health.

Legal Requirements:

Make	☐ Many varnishes are composed of hazardous materials. You must determine
hazardous	if your waste varnish is hazardous [RCRA; 40 CFR 262.11; DHEC R.61-
waste	79.262.11]. A hazardous waste determination must also be conducted for any
determination	materials used to clean a spill. Manage hazardous waste accordingly.

Best Management Practices:

Reduce	Avoid the disposal problem of leftover varnish by mixing only as much as
leftovers	is needed for a given job.
	Consider sharing leftover varnishes with customers or setting up an
	exchange area for customers to swap unused items.
Use	Use less hazardous, water-based varnishes that pose less of a threat to
alternatives	human health or the environment.
Clean up spills	In case of spills of varnish on land, use absorbent material to clean it up
appropriately	and collect any contaminated soils.
	Spills in waterways should be contained and mopped up with booms or
	pads that repel water but absorb petroleum.
	Do not use soaps or detergents to clean up spills. They spread out the
	problem rather than helping and the detergent is toxic to marine life.

- ⇒ Appendix B and Hazardous Waste section for hazardous waste management information.
- ⇒ Appendix F and Stormwater Runoff Management Practices section for stormwater discharge information.
- ⇒ Spills section.

Teak Refinishing

Potential Environmental Impacts:

Teak cleaners that contain acids and caustics can be toxic to marine life when spilled in the water.

Legal Requirements:

Make	☐ A hazardous waste determination must be conducted for spent teak cleaner
hazardous	and for any materials used to clean a spill [RCRA; 40 CFR 262.11; DHEC R.61-
waste	79.262.11]. Manage hazardous waste accordingly.
determination	

Best Management Practices:

Use alternative	☐ Avoid teak cleaners containing acids (such as phosphoric acid or oxalic
products	acid) or those labeled "caustic, corrosive, or acidic."
	☐ Clean teak with a mild, phosphate-free detergent with bronze wool, if
	possible.
Use dustless	☐ If sanding teak, use a dustless or vacuum sander.
sander	
Location	☐ If possible, conduct teak refinishing in upland maintenance area. If not
	possible, use safer cleaners and avoid flushing excess teak cleaner and teak
	oil into the marina basin.

- ⇒ Appendix B and Hazardous Waste section for hazardous waste management information.
- ⇒ Appendix F and Stormwater Runoff Management Practices section for stormwater discharge information.

Fiberglassing

Potential Environmental Impacts:

The processes involved in fiberglassing, whether using epoxy, polyester, or vinylester resins for small or big jobs, can have environmental impacts. Some of the materials used in the fiberglassing process can be dangerous to workers. Some resins, catalysts and the solvents used for cleanup can be flammable, irritate the skin and respiratory system, and may cause cancer.

Legal Requirements:

Make	Styrene, the primary component of gelcoat and other polyester resins, is an
hazardous	ignitable chemical. Therefore, cans or containers of waste resins may be
waste	regulated as ignitable hazardous waste. Certain hardeners and accelerators
determination	may also be regulated as hazardous waste [RCRA; 40 CFR 262.11; DHEC R.61-
	79.262.11].
	Chlorinated solvents and the rags used to apply them must be managed as
	hazardous waste [RCRA; 40 CFR 262.11; DHEC R.61-79.262.34].
Hazardous	If you store over 10,000 pounds of any hazardous substance requiring a
waste storage	Material Safety Data Sheet (such as a solvent), you must comply with the
>10,000 lbs	reporting requirements under Emergency Planning and Community Right-
	to-Know Act of 1986 (EPCRA) [40 CFR 355].
Hull or deck	If you manufacture hulls or decks for recreational boats made from
manufacture	fiberglass or aluminum <i>and</i> emit 10 tons or more per year of any one
	federally designated hazardous air pollutant (HAP) like styrene, toluene, or
	xylene, and/or 25 tons or more per year of all HAPs combined, several
	EPA air emission standards must be followed [40 CFR 63, Subpart VVVV].

Best Management Practices:

Minimize	☐ Minimize waste by working with small batches of resin.
waste	
No liquid	☐ Avoid putting liquid hardener in the trash, since it can spontaneously
hardener in	combust when mixed with sawdust and other materials.
trash	

- ⇒ Appendix A for hazardous substance management information.
- ⇒ Appendix B and Hazardous Waste section for hazardous waste management information.
- ⇒ Appendix F and Stormwater Runoff Management Practices section for stormwater discharge information.
- ⇒ Rags and Oil Absorbent Pads section.

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Emergency Planning

Potential Environmental Impacts:

Being adequately prepared for emergency action can potentially reduce the overall environmental impact of a spill, fire, or other event.

Legal Requirements:

SPCC Plan		You need to prepare a Spill, Prevention, Control, and Countermeasure (SPCC) Plan, which outlines a facility-wide plan to prevent and clean up oil and gasoline spills [Clean Water Act, 40 CFR 112] if your facility stores gas or oil: 1. Above-ground in any size tank(s) with a total aggregate volume over 1,320 gallons (containers of less than 55 gallons and/or permanently closed storage tanks are exempt from the total); or 2. In underground storage tanks with total capacity greater than 42,000 gallons (unless the tanks are compliant with the state requirement for USTs)
Hazardous waste contingency plan		If your facility is a Large or Small Quantity Generator of hazardous waste, you must prepare a hazardous waste contingency plan [40 CFR 262.34; DHEC R. 61-79.265.50-56].
NFPA		If you have a marine service station, you must design and manage it to prevent spills, fire, and other dangers as required in the National Fire Protection Association's (NFPA) <i>Automotive and Marine Service Station Code</i> (NFPA 30A). These requirements are adopted locally. Check with your municipal fire marshal for local requirements.
Storage of quantities of hazardous materials	_	If you store hazardous materials in quantities above certain threshold amounts, you must report storage of that substance under the Emergency Planning and Community Right-to-Know Act of 1986 [42 USC 11001, and 42 CFR 355]. Keep copies of Material Safety Data Sheets (MSDS) for all hazardous substances used at your facility [Occupational Safety and Health Act of 1970, 29 USC Section 657; DHEC R.61-79.262.34].
Report spills		Any spill or release of petroleum that results in a sheen on the waters of the state or threatens the waters of the State to include groundwater must be reported immediately to the: 1. SCDHEC Emergency Response Section at 1-888-481-0125 and 2. National Response Center at 1-800-424-8802 [Section 311 of the Clean Water Act; 33 USC 1321].

Assess hazards		Assess potential hazards at your facility, both manmade (fuel spill or fire) and natural (tsunami or earthquake).
Spill response kits: Convenient location Kit materials		Store spill containment and control materials in a clearly marked location, readily accessible to work and storage areas. The spill response kits should include: 1. Absorbent pads and booms (small and large) 2. Empty sandbags 3. Sewer pipe plugs 4. Dry absorbent 5. Square end shovels 6. A pry bar 7. Curtain boom (long enough to span the mouth of the marina and to completely encircle the largest vessel in moorage) 8. Drain covers 9. Fire extinguishers, and 10. A copy of the facility's spill contingency plan.
Emergency response plans:	_ 	Develop emergency response plans that include written procedures for action addressing potential emergency situations. Keep the plan in an accessible location. Emergency response plans should:
Site plan Hazardous materials		 Include a site plan of the facility, showing valves, pipes, tanks, structures, roads, hydrants, docks, power and fuel shutoffs, hazardous material storage locations, telephones, and location of emergency response materials. Describe the type, amount, and location of hazardous and potentially
Designate staff actions		 bestrice the type, amount, and recently of hazardous and potentiarly hazardous materials stored on-site. Identify which staff member will take what action in the event of an emergency. Designate one person as the spokesperson for the marina.
Marina spokesperson Emergency		 Include a list of emergency phone numbers for: USCG National Response Center – 1 (800) 424-8802 [for spills] SCDHEC Emergency Response Section at 1-888-481-0125 & the National Response Center at 1-800-424-8802 [Section 311 of the
numbers		Clean Water Act; 33 USC 1321]. Local fire and police Facility owner Local harbormaster
Actions to be taken		 Neighboring marinas that have emergency response equipment Spill response contractors List and describe actions to be taken during an emergency and, based
Other help Update plan		on likely threats, what equipment should be deployed.7. Indicate when additional resources should be called for assistance.
Train employees		Update the emergency response plan as necessary each year. Review the emergency response plan with employees and train them on proper use of containment material. Inform local fire department and harbormaster of your emergency
Inform others		response plan.

Spill	Develop an oil spill contingency plan, even if you are not required by law	
contingency	to prepare an SPCC Plan. A spill contingency plan and emergency	
plan	response plan can be combined into one document.	
	☐ The plan should identify:	
	1. Potential spill sources	
	2. Oil and hazardous materials used or stored in the area	
	3. Spill prevention measures (e.g., security, inspection, containment,	
	training, equipment), and	
	4. Spill emergency procedures, including:	
	a. Contact information of marina personnel qualified to lead	
	spill response efforts.	
	b. Notification and spill containment measures.	
Severe	☐ Develop an action checklist for severe weather. Preparations to reduce	
weather	environmental risks include securing all dumpsters, removing or securing	
checklist	all objects that could potentially blow or wash away, and securing	
	waterside sewage pumpouts and/or dump stations.	

- ⇒ Appendix A for hazardous substance management information.
- ⇒ Appendix B and Hazardous Waste section for hazardous waste management information.
- ⇒ Appendix E for state and federal spill reporting requirements.
- ⇒ Spills section.